## Work Order ID 71324

Tuesday, June 28, 2011 10:06:00 AM



Page 1

Item ID: **Revision ID:** Item Name:

D3391-021

Accept



Setup Start



-- Stop

Start Date:

6/28/2011

Fwd Tube Assembly

Start Qty: 1.00

Req'd Oty: 1.00

**Cust Item ID: Customer:** 

Reference:

Required Date: 7/21/2011

Approvals:

Process Plan: MF

Date: \_\_\_\_

Date: 1)-06-28 Tooling:

SPC (Y/N):

Date:

Date:

Start



Stop

Sequence ID/ Work Center ID Operation Description Set Up/

**Run Hours** 

Tool ID

Tool # Plan Qty Code

Reject Accept Qty

Run

Reject Number Stamp

Insp.

Draw Nbr

**Revision Nbr** 

QC:

D3391

Rev H

Skidtubes

100

Skidtubes

Memo

0.00

0.00

Skidtubes Cut extrusion to 46.52 +0.010 -0.020

11-6-28

110

CNC Bend 1

BENDING MACHINE - SKIDTUBES

Memo

0.00

0.00

CNC Delta 100 Bender Bend as per Dwg D3391 Using Bend Prog 3391021

120

QC5- Inspect part completeness to step on W/O

0.00

Memo

0.00

BE11-06-28

Quality Control

W/O:			W	ORK ORDER CHANG	iES					
DATE	STEP	PRO	OCEDURE CH	ANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	·	PAR #:	Fault Cat	egory:	_ NCR:	Yes N	lo DQA	.:	_ Date: _	
	Re	esolution:	Disposition	on:	_ QA: 1	VC Clo	sed:		Date: _	
NCR:			WORK ORE	DER NON-CONFORM	ANCE	(NCR)		·		
DATE STEP		Description of NC			tion B		Verific	ation	Approval	Approval
		Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date	Section		Chief Eng	QC Inspector
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### Work Order ID 71324

Tuesday, June 28, 2011 10:06:00 AM



Page 2

Item ID:

D3391-021

Accept

Setup Start

Stop



Revision ID:

Item Name:

Fwd Tube Assembly

**Start Date:** 

6/28/2011

Start Qty: 1.00

Required Date: 7/21/2011 **Req'd Qty:** 1.00



**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Date:

Run

Start Stop



Date:

SPC (Y/N):

Set Up/

0.00

0.00

**Run Hours** 

Tool ID

Tool # Plan Code

Reject Accept Qty Qty

Reject Number Stamp

Insp.

Sequence ID/ **Work Center ID** 

130

HAAS 1

Operation Description

HAAS CNC VERTICAL MACHINING #1

11/06/29

HAAS CNC vertical machine #1

1-Machine as per Folio FA590 Rev. AA & Dwg D3391 Rev.

Identify as D3391-1

2-Deburr

Memo

140

Quality Control

QC2- Inspect parts off machine FAI/FAIB

0.00

0.00

150

Mill Conv

Conventional Milling Machine

CONVENTIONAL MILLING MACHINE

Memo

0.00

Drill X1 Aft cap as per Dwg D3391 .1875" dia

		—- <del>-</del> -							,		
W/O:			W	ORK ORDER CHANGI	ES						
DATE	STEP	PRO	DCEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	lo DQA:		_ Date: _			
	Re	esolution:	Dispositio	n:	QA: N/C Closed: Date:						
NCR:		,	WORK ORD	ER NON-CONFORMA	NCE (NCR)						
DATE	STEP	Description of NC		Corrective Action Section		Verifica	tion	Approval	Approvai		
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### Work Order ID 71324

Tuesday, June 28, 2011 10:06:00 AM



Page 3

Item ID:

D3391-021

Accept

Setup Start

Stop

**Revision ID:** 

Item Name:

Fwd Tube Assembly

**Start Date:** 

6/28/2011

Start Qty: 1.00

Required Date: 7/21/2011 Req'd Qty: 1.00



**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

QC:

Process Plan:

Date:

Tooling:

Run

Start



Date: \_\_\_\_\_

SPC (Y/N):

Set Up/

Date: Tool ID

Stop

Sequence ID/ **Work Center ID** 

160

Quality Control

Operation Description

QC2- Inspect parts off machine FAI/FAIB

Memo

Memo

0.00

Tool # Plan Accept Qty Code

Reject Qty

Reject Insp. Number Stamp

Run Hours

0.00

170

QC

QC8- Inspect parts - second check

0.00

0.00

Tul 11.00.29

Date:

Quality Control

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W/O:			ž	V	ORK ORD	ER CHANGE	S				
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# Work Order ID 71324

Item:ID:

Tuesday, June 28, 2011 10:06:00 AM

D3391-021



Accept

Page 4

Setup Start

Revision ID: Stop Item Name: Fwd Tube Assembly **Start Date:** 6/28/2011 Start Qty: 1.00 **Cust Item ID: Required Date: 7/21/2011** Req'd Qty: 1.00 **Customer:** Reference: Start Run Process Plan: Approvals: Date: \_\_\_\_\_ Tooling: Date: Stop QC: Date: \_\_\_\_\_ SPC (Y/N): Date: Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. **Work Center ID** Description **Run Hours** Qty Code Qty Number Stamp 0.00 Skidtubes 1/81 189 Skidtubes 0.00 Memo Skidtubes . 1-Drill float bag holes as per Dwg D3391 using DT8798(Do not open tow cap holes to finish size) (ONLY DRILL HOLES MARKED "A") 2-Drill Remaining two holes for tow cap using DT 8819 Locating off of .1875" holes drilled in previous step 3-Open tow cap holes to .208" as per Dwg D3391 4-Open Tow Ring hole to .640" as per Dwg D3391 5- open float bag holes 0.328" and counter sink as per dwg D3391 6-Deburr & Scribe Batch number Inside aft end. 7-Transfer drill D3391-021 with D3391-023 QC5- Inspect part completeness to step on W/O 0.00 Memo Quality Control

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W/O:			WORK ORDER CHAN			
DATE	STEP	PROCEI	DURE CHANGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr  Approval QC Inspector
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Tuesday, June 28, 2011 10:06:00 AM D3391-021 Item ID: **Revision ID:** 

Fwd Tube Assembly

**Start Date:** 6/28/2011 Required Date: 7/21/2011

Start Qty: 1.00 Req'd Qty: 1.00



Accept



Setup Start

Stop

Stop



**Cust Item ID:** 

**Customer:** 

Reference:

Item Name:

**Approvals:** 

QC:

Process Plan:

Date:

Date:

**₹** Tooling:

SPC (Y/N):

Set Up/

**Run Hours** 

Date:

Date:

Run Start



Sequence ID/ Work Center ID

200

HandFinish

Chemical Conversion Coat per QSI005 4.1

Operation

Description

0.00 0.00 Tool ID

Tool # Plan

Code Qty

Accept Reject **Qty** 

11-09-20

Reject Insp. Number Stamp

Hand Finishing

210

Quality Control

QC3- Inspect Part Finish

Memo

Memo

0.00

0.00

11-9-21

220

QC

Skidtubes

Skidtubes

Skidtubes

Memo

0.00

0.00

1-instal spacers as per dwg D3391 A/R Magnabond 6398 batch: 117870

exp. date: 63/2013 cure time 12hrs. as per QSI015

2- grind crossbolt flush

3-back drill crossbolt if necessary

of uporta

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W/O:				V	ORK ORDER CHAN	NGES									
DATE	STEP	į	PF	ROCEDURE CH	IANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
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Tuesday, June 28, 2011 10:06:00 AM



Page 6

Item ID:

D3391-021

Accept

Setup Start

Stop



**Revision ID:** 

Item Name:

Fwd Tube Assembly

**Start Date:** 

Required Date: 7/21/2011

6/28/2011

Start Qty: 1.00

Req'd Qty: 1.00



Date: \_\_\_\_\_

Cust Item ID:

**Customer:** 

Reference:

Approvals:

Process Plan: Date:

Tooling:

SPC (Y/N):

Date:

Date:

Run

Stop

Start



Sequence ID/

Work Center ID

230

QC

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Set Up/ **Run Hours** 

0.00

Tool ID

Tool # Plan Code

Accept Qty

Reject Reject **Qty** Number

Insp. Stamp

8 ulaby

235

HandFinish Hand Finishing Pressure Wash per QSI005 4.3

Memo

0.00

Memo

0.00

AND REALODINE AS PER PAR09-043

X9 M-/1/04/27

240

Powdercoat

Powder Coating

White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum

0.00

START TIME: OVEN TEMPERATURE: FINISH TIME:

1X8m-21/04/27

W 118439

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W/O:			WC	RK ORDER CHANGE	ES			·
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DATE	STEP	Description of NC	Initial	Corrective Action Section	on B Sign &	Verification		Approval
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Wor	k O	rder	ID	713	324
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Tuesday, June 28, 2011 10:06:00 AM



Page 7

Insp.

Stamp .

Item ID: D3391-021 Accept Setup Start **Revision ID:** Stop Fwd Tube Assembly Item Name: **Start Date:** 6/28/2011 Start Qty: 1.00 **Cust Item ID:** Required Date: 7/21/2011 Req'd Qty: 1.00 **Customer:** Reference: Start Run Process Plan: Date: Approvals: Tooling: Date: Stop Date: SPC (Y/N): Date: \_\_\_ Sequence ID/ Operation Set Up/ Reject **Tool ID** Tool # Plan Accept Reject Description Work Center ID Qty Qty **Run Hours** Code Number 250 OC3- Inspect Part Finish 0.00 Ł. 0.00 Memo Quality Control 255 0.00 1 & M W/09/27 Skidtubes Skidtubes 0.00 \*\*\*\* install D3591-1 spacer as per DSI9364 and wearplate and gasket as per Skidtubes DWG \*\*\*\*

Quality Control

257

QC5- Inspect part completeness to step on W/O

Memo

0.00 S May 128

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W/O: WORK ORDER CHANGES										
DATE	STEP	!	PRO	OCEDURE CH	ANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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	R	esolution:		Dispositi	on:	QA: N/C C	osed:		Date: _	
NCR:		WORK ORI	DER NON-CONFORM	ANCE (NCF	₹)					
DATE	STEP	Descrip	tion of NC			ction B	Verifi	cation	Approval	Approval
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### Work Order ID 71324

Tuesday, June 28, 2011 10:06:00 AM



Page 8

Item ID:

D3391-021

Accept

Setup Start



**Revision ID:** 

Item Name:

Fwd Tube Assembly

**Start Date:** 

Required Date: 7/21/2011

6/28/2011

QC:

Start Qty: 1.00

Req'd Qty: 1.00



**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Process Plan:

Operation

Date: Date: \_\_\_\_\_

Tooling: SPC (Y/N):

**Run Hours** 

Date: Date: Run

Reject

Qty

Start Stop

Stop



Set Up/

**Tool ID** 

Tool # Plan

Code

Accept Qty

Reject Number

Insp. Stamp

Sequence ID/ **Work Center ID** 

260

Packaging

Description Identify as per dwg & Stock Location: W \ O

D412-742.043/B71328 0.00

Packaging

280

QC

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

Memo

0.00

0.00

		1						
W/O:			W	ORK ORDER CHANG	ES			
DATE	STEP	PF	ROCEDURE CH	ANGE	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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### **Picklist Print**

Tuesday, June 28, 2011 10:05:57 AM

Work Order ID: 71324

Parent Item: D3391-021

Parent Item Name: Fwd Tube Assembly

Start Date: 6/28/2011

Start Qty: 1.00

Required Date: 7/21/2011

Page 1

Required Qty: 1.00

Comments:

IPP A□05.09.13□New issue□

KJ/JLM□

IPP B□06.02.10□Dwg rev.D ecn 773 □EC□ 

IPP C□06.05.02□Added inspections

IPP D 07.03.13 rev F dwg

IPP E 07.11.07 revG dwg ecn1053P

EC verified by: DD

EC

IPP Rev:f ECN 1056 07-11-12 DD verified by: EC

IPP Rev:G 08-09-08 new process (ecn 08-510) DD verified by:EC

IPP Rev:H 08-09-10 revH as per dwg DD verified by:EC

IPP Rev J 09.02.02 added hardware EC verifified by: DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D6013-047		Manufactured	No			100	Each	18.0000		1	*** (*********************************		
				Location LG	26547	<u>Loc</u>	Oty 18 18	Loc Code			11-6	-25	}
D3670-4-200 		Manufactured	No			220	Each	38.0000	4	4			Dh
ornesi.				<u>Location</u> LG		Loc	<u>Qty</u> 38	Loc Code			_	•	11/09
D3401-041	14 N	Manufactured	No	<	70822	255	38 Each	2.0000	· <u> </u>	1	_	1	
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Tow Cap Assembly

<b>Location</b>	Loc Oty	Loc Code	
FP007	2		
61505	2	B71352	<u>\x\</u>

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Tuesday, June 28, 2011 10:05:57 AM Work Order ID: 71324 Parent Item: D3391-021 Parent Item Name: Fwd Tube Assembly Start Date: 6/28/2011 Required Date: 7/21/2011 Start Qty: 1.00 Required Qty: 1.00 D3564-13 Manufactured No 255 Each 16.0000 uloal 2.7 Wearshoe Location Loc Qty Loc Code FP016 16 372850 69280 16 D3566-13 26.0000 Manufactured No 255 Each 1104127 Gasket Location Loc Qty Loc Code FP 24 69281 24 FP014 2 68341 2 NAS1149C0332 AN960C10L Purchased No 255 Each 0.0000 10 10 11118351 11/09/27 washer AN3C4A Purchased No 255 2,162.000 Each 10 10 BOLT

<b>Location</b>	Loc Qty	Loc Code	
ST350	2162		
117313	2		
117688	776		
117795	500	120 () )	
117872	· 22	119983	XIO
118012	500		
118112	362		

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### **Picklist Print**

Tuesday, June 28, 2011 10:05:57 AM

Page 3

Work Order ID: 71324

Parent Item:

D3391-021

Parent Item Name: Fwd Tube Assembly



Start Date: 6/28/2011

Required Date: 7/21/2011

Start Qty: 1.00

Required Qty: 1.00

D3672-1

Phenolic Washer

Manufactured	No
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255

Each

1,122.000

4/04/27

	<b>Location</b>	Loc Qty L	oc Code
	ST074	1096	
	64177	596	·
	66821	500	<u> </u>
	ST077	26	
	52505	26	
AELS-1032-130 Purchased No			0.0000 2 2
INSERT		17F11 /1	= (x2) M 1/09/23
AELS-1032-225 Purchased No		255 Each	0.0000 10 10
			(MO) NI 1106(27)

**INSERT** 

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DART AEROSPACE LTD	Work Order:	71324
Description: Float Skidtube (412)	Part Number:	D3391-1
Inspection Dwg: D3391 Rev: H		Page 1 of 1

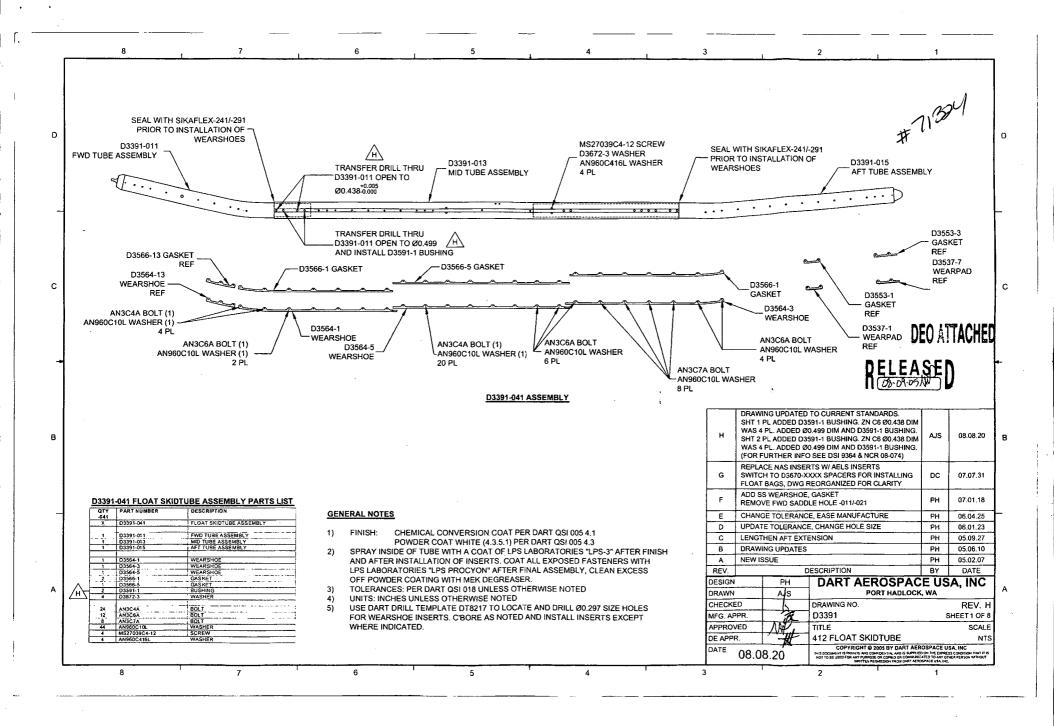
# FIRST ARTICLE INSPECTION CHECKLIST

	T			T		
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of inspection	Comments
0.687	+0.010/-0.000	0.692	/		Vern	GA-01
3.590	+0.025/-0.010	3.612	<b>✓</b>		Mic	GA-10
3.300	+0.040/-0.000	3.320	~	1	Vein	GA-01
1.429	+0.040/-0.060	1.423	~		. 1(	11
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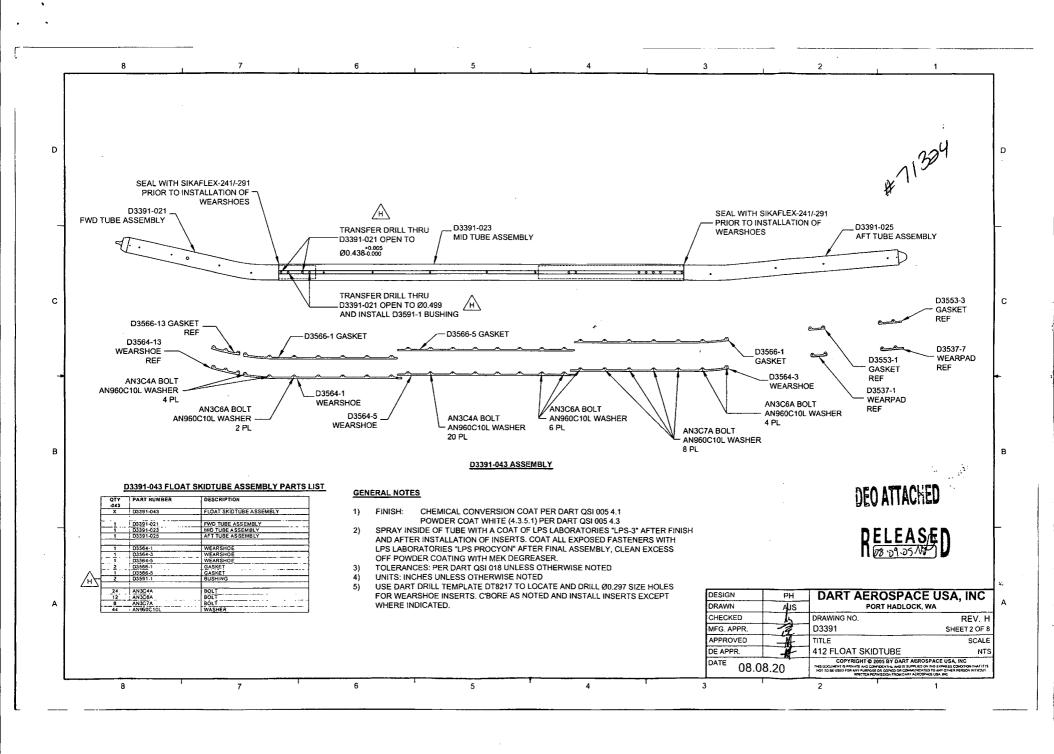
Measured by:	b.A A	Audited by:	Preliminary Approval:
Date:	11/06/29 1/06/29	Date: 1/.06.20	Date:

Rev	Date	Change	Revised by	Approved
Α	06.04.27	New Issue P/O D3391-011/-021	KJ/JLM	
В	06.06.19	Tolerances revised per D3391 Rev. E	KJ/JLM	
С	07.03.21	Dimensions removed per Dwg rev. F	KJ/JLM	
D	07.11.23	Dwg Rev. updated	KJ/EC/DD	1
E	09.12.14	Dwg Rev updated	KJ , ,	////
F	11.06.21	Dimension 0.500 added	KJ 94	CZMI

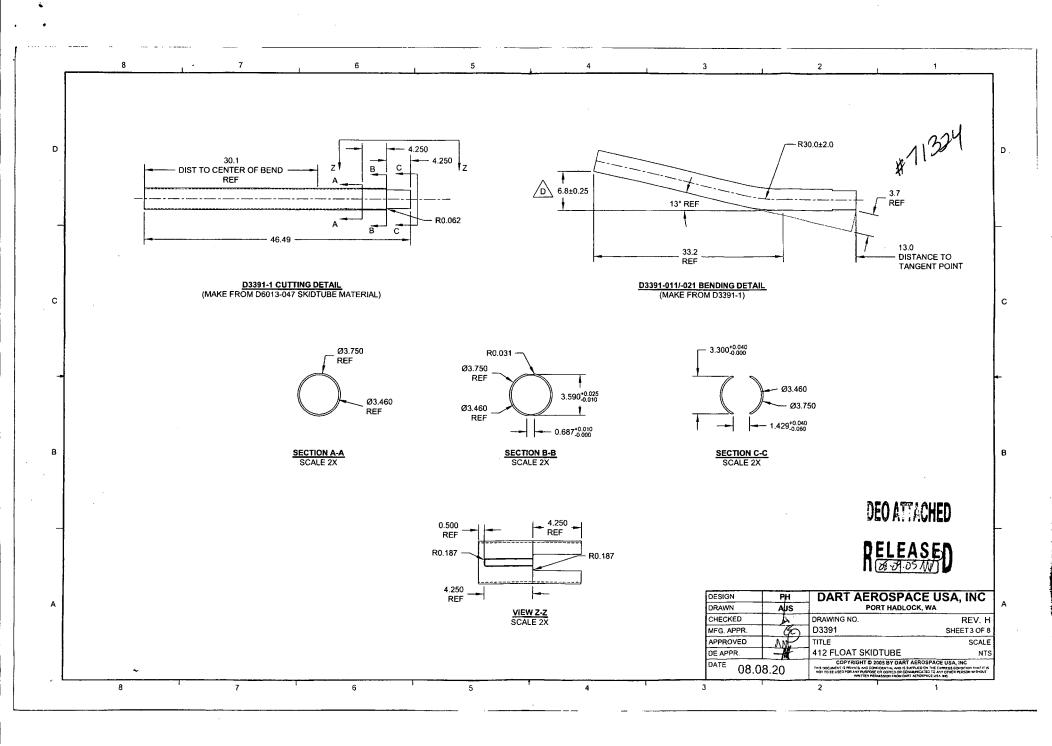




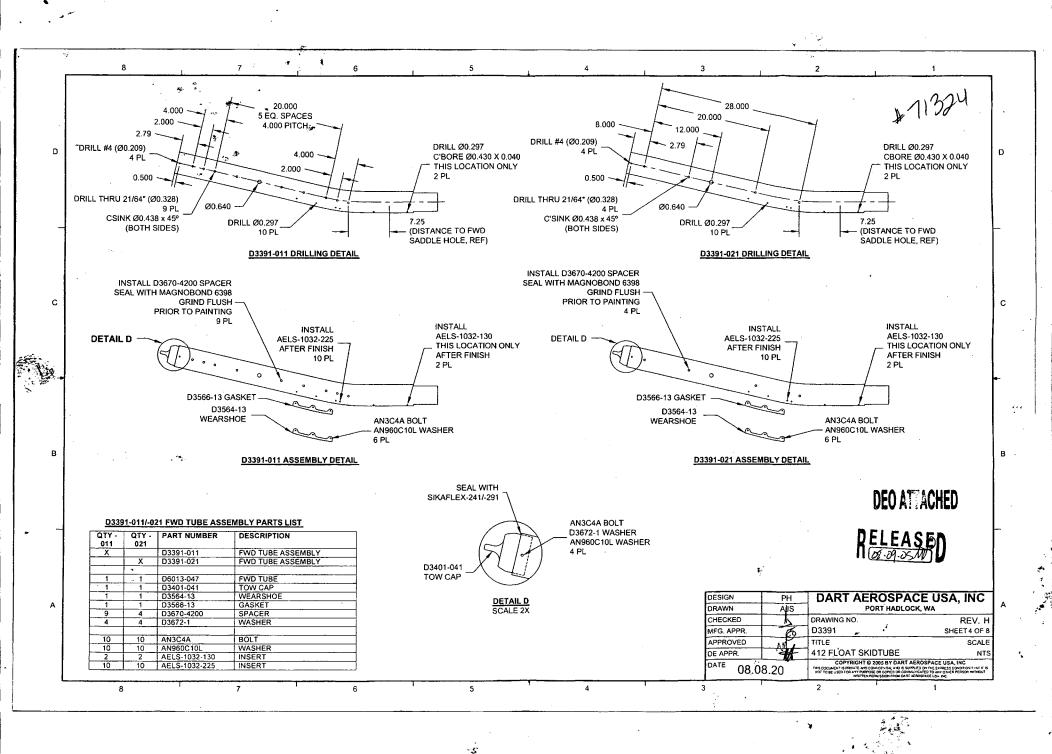
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Resolution:			Dispositio	QA: N/C CI	osed:		Date: _		
NCR:			WORK ORD	ER NON-CONFORMAN	ICE (NCR	<b>(</b> )			
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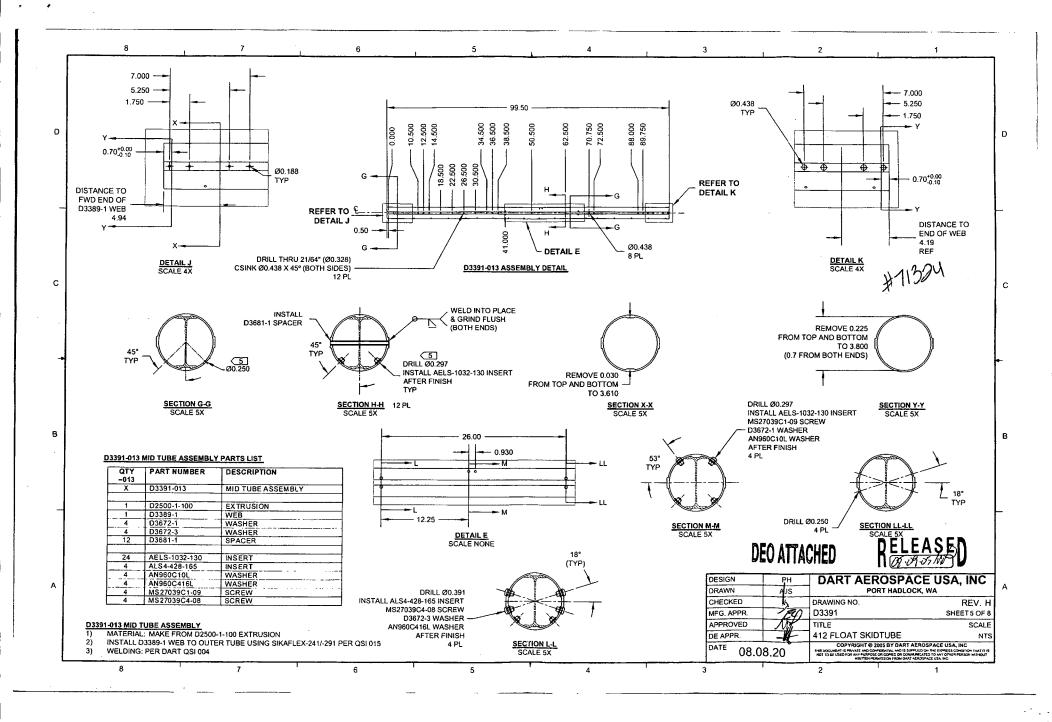
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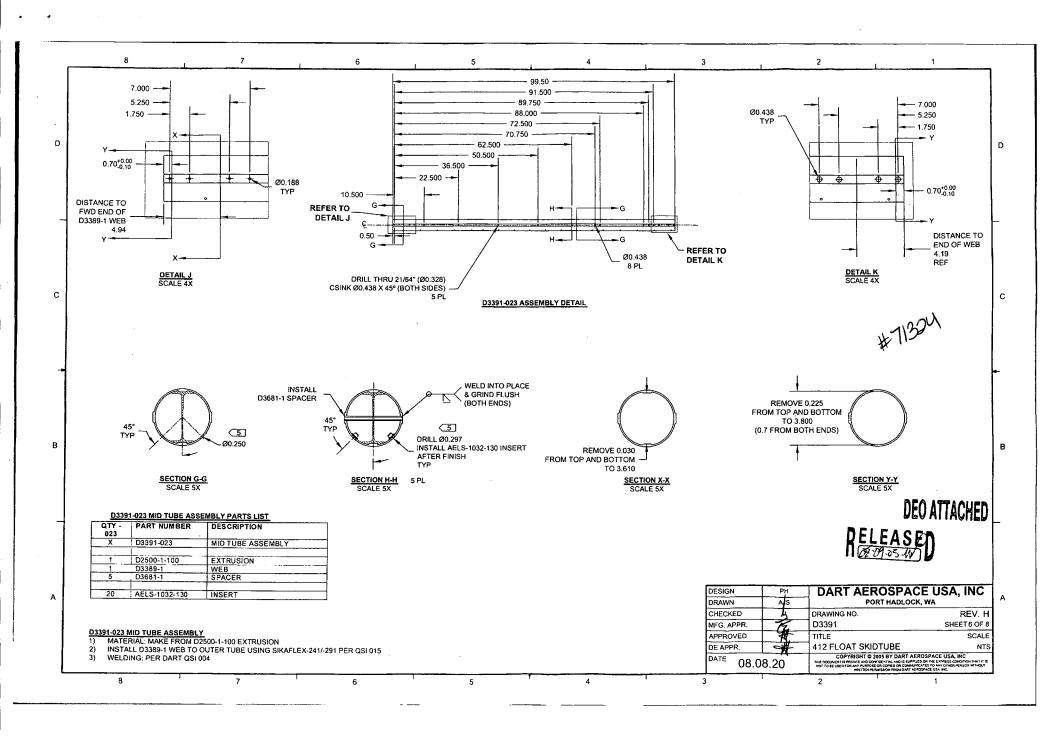
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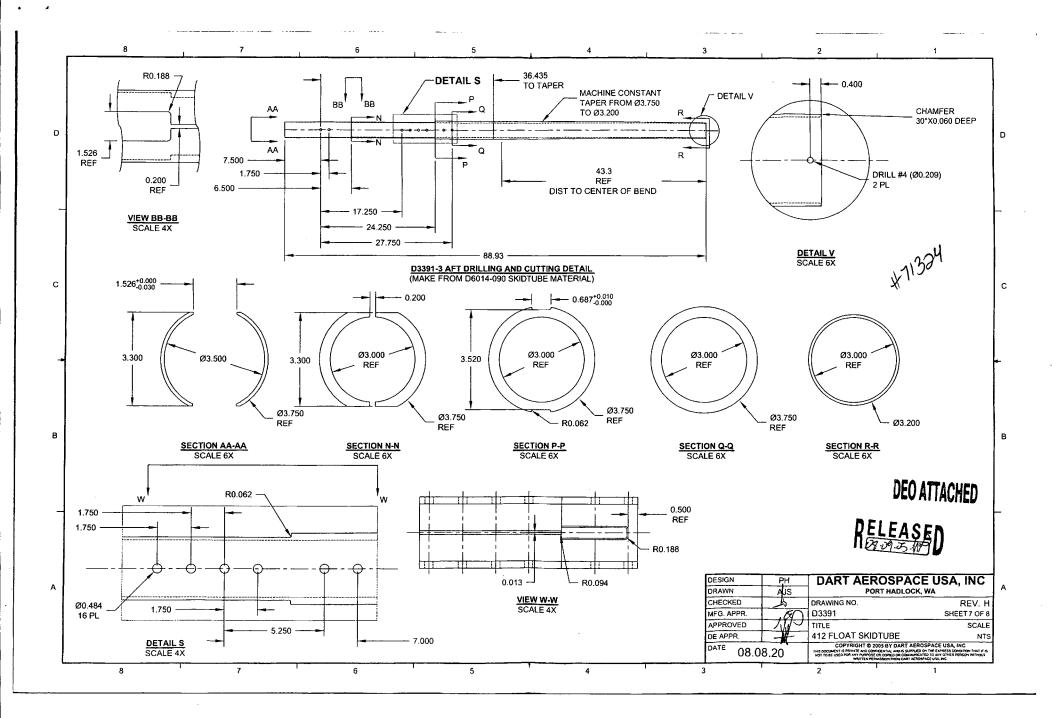
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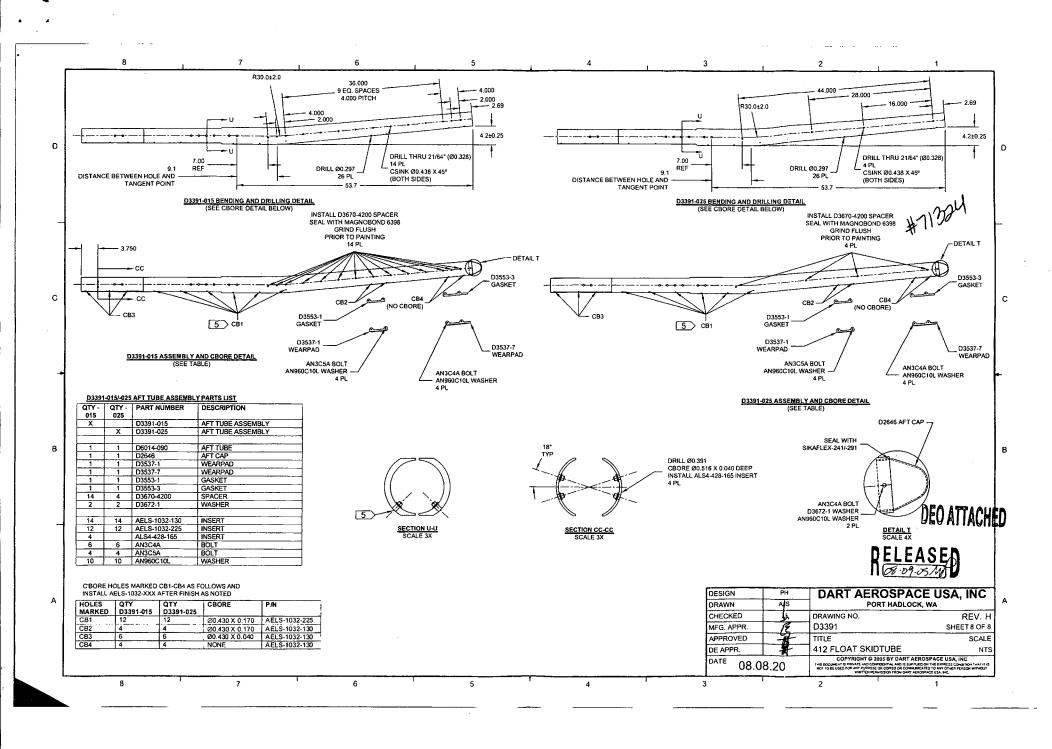
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DRAWING	NO. TITLE		REV. H D	ART AEROSPACE L	JSA, INC D.E.O. NO.	SHEET NO.	SCALE
D3391_	412 F	LOAT SKIDTUBE	,	<b>ENGINEERING OR</b>	RDER D3391-H-1	SHEET 1 OF,1	NTS
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#### **PURPOSE:**

LPS-3 IS NO LONGER USED DURING ASSEMBLY OF D3391-041/-043 SKIDTUBES.

#### CHANGE:

AMEND NOTE 2 OF D3391-041/-043 SKIDTUBE ASSEMBLIES (ZN A6-1, A6-2) AS FOLLOWS:

2) SPRAY INSIDE OF TUBE WITH A COAT OF LPS LABORATORIES "LPS-3" AFTER FINISH AND AFTER INSTALLATION OF INSERTS. COAT ALL EXPOSED FASTENERS WITH LPS LABORATORIES "LPS PROCYON" AFTER FINAL ASSEMBLY, CLEAN EXCESS OFF POWDER COATING WITH MEK DEGREASER.



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**Dart Aerospace Ltd** W/O: **WORK ORDER CHANGES Approval Approval** DATE **STEP PROCEDURE CHANGE** By **Date** Qty Chief Eng / Prod Mgr QC Inspector Part No: \_\_\_\_\_\_PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_ Date: \_\_\_\_ Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_ WORK ORDER NON-CONFORMANCE (NCR) NCR: **Corrective Action** Section B **Description of NC** Verification **Approval Approval** DATE **STEP** Section A Initial **Action Description** Sign & Section C Chief Eng QC Inspector Date Chief Eng Chief Eng